

Date: Thu, 18 Mar 93 16:11:00 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #342  
To: Info-Hams

Info-Hams Digest                      Thu, 18 Mar 93                      Volume 93 : Issue    342

Today's Topics:

    ALERT: Big Bear Solar Observatory BEARALERT for 18 Mar  
            BOAT ANCHOR NITE on 10m  
    Daily Solar Geophysical Data Broadcast for 17 March  
            Frequency doublers  
            Good amateur radio log  
            Help 2meter j antenna  
            help: exam prep (2 msgs)  
            MFJ & Oak Hills QRP gear  
            Mobile in a Lumina  
            NEC-2 Ground parameters  
            new bug user  
    TS-820 vs. TS-820S: Differences ?  
    White House To Auction Airwaves  
    Wrinkle Paint

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 18 Mar 93 23:42:31 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: ALERT: Big Bear Solar Observatory BEARALERT for 18 Mar  
To: info-hams@ucsd.edu

BEARALERT                      18 March 1993    1700 UT

Update to 1993 March 11 Bearalert  
NOAA AR 7448 (N16 W17 @ 18 March 1645 UT)

The region shows growth in the trailing portion and is now a delta configuration. There is an increase of positive polarity flux to the south and an increase of negative polarity flux to the east of the previously trailing sunspots. This area has an increased plage intensity. Shear seen in the transverse magnetograms has increased. We expect an increase in flare activity from this trailing portion of AR 7448. Sample magnetograms and high-resolution images can be found in the directory [ftp.region] using anonymous FTP to the Internet node suncub.bbso.caltech.edu.

Please note that we consider Bearalerts to be in effect until the region disappears from view or we send a message indicating that the region is no longer active.

-WM & JRV

-----> STD NOTE <-----

All of the FITS-formatted BBSO images are automatically processed into GIF images and made available for anonymous FTP at: xi.uleth.ca (IP number 142.66.3.29). All images are also automatically oriented so north in the images is to the top and east is to the left. The above mentioned magnetograms and high-resolution images are therefore also available from the anonymous FTP site xi.uleth.ca in the directory "pub/solar/Images". Get the file "00-index.txt" for descriptions of these images. Images are processed from the various observatories once every three hours.

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Date: Thu, 18 Mar 1993 22:03:14 GMT  
From: agate!howland.reston.ans.net!gatech!darwin.sura.net!sgiblab!sgigate!odin!  
chuck.dallas.sgi.com!adams@ames.arpa  
Subject: BOAT ANCHOR NITE on 10m  
To: info-hams@ucsd.edu

In article <1o8lv9INNgbi@topaz.bds.com>, ron@topaz.bds.com (Ron Natalie) writes:

```
|> > "BOAT ANCHOR NITE"  
|> > 28.310 USB  
|>  
|> If you really wanted boat anchors, you wouldn't limit it to USB. Let me  
|> get my DX60 out.  
|>  
|> -Ron
```

WHAT!!! come on Ron, i'll drag out an APACHE!! DX60 doesn't weight anything. probably might be used for boatanchor in bathtub..... :-)

i'm sorry guys, i just couldn't resist. the devil made me do it....  
no dave k. made me do it. hear the one about the high speed CW op using  
a flashlight to send SOS .....

: -) repeat as often as necessary

73 de chuck k5fo dit dit

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Date: 18 Mar 93 23:20:39 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Daily Solar Geophysical Data Broadcast for 17 March  
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 076, 03/17/93  
10.7 FLUX=123.6 90-AVG=135 SSN=082 BKI=3344 2324 BAI=017  
BGND-XRAY=B2.0 FLU1=3.6E+07 FLU10=1.8E+04 PKI=3344 3334 PAI=019  
BOU-DEV=039,025,048,057,019,023,017,023 DEV-AVG=031 NT SWF=00:000  
XRAY-MAX= C1.7 @ 1805UT XRAY-MIN= B1.7 @ 0703UT XRAY-AVG= B5.0  
NEUTN-MAX= +004% @ 2135UT NEUTN-MIN= -001% @ 1425UT NEUTN-AVG= +1.2%  
PCA-MAX= +0.2DB @ 2120UT PCA-MIN= -0.3DB @ 0225UT PCA-AVG= -0.0DB  
BOUTF-MAX=55410NT @ 2359UT BOUTF-MIN=55374NT @ 1810UT BOUTF-AVG=55397NT  
GOES7-MAX=P:+116NT@ 1905UT GOES7-MIN=N:-007NT@ 0845UT G7-AVG=+076,+041,+008  
GOES6-MAX=P:+130NT@ 1904UT GOES6-MIN=N:-114NT@ 2356UT G6-AVG=+088,-005,-056  
FLUXFCST=STD:120,120,120;SESC:120,120,120 BAI/PAI-FCST=015,015,020/020,015,015  
KFCST=3214 5122 3214 5122 27DAY-AP=011,007 27DAY-KP=1123 4423 3032 2111  
WARNINGS=\*SWF  
ALERTS=  
!!END-DATA!!

NOTE: The Effective Sunspot Number for 16 MAR 93 was 65.0.

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Date: Thu, 18 Mar 1993 20:04:44 GMT  
From: news.cerf.net!proton!psi.illumc.edu!britton@network.UCSD.EDU  
Subject: Frequency doublers  
To: info-hams@ucsd.edu

In answering a question on the net about how to double the frequency  
of a crystal oscillator, Gary Coffman says:

< Better would be to use a Colpitts oscillator followed  
< by a push pull doubler stage. This will be strong and clean as well as  
< offering buffering to the oscillator.

Sorry, old man, but a push-pull circuit CANCELS even order harmonics! Push-

pull works fine to tripple, but to double you want a PUSH-PUSH circuit.

The handbook had an exmple of a push-push doubler in it for years, and it is still in the 1992 edition. I designed that circuit into a piece of Collins equipment many years ago to double the 10 MHz output of a rubidium frequency standard--it works fine. If you use a reasonably high-Q tank, the doubled output is very clean, with almost no trace of the fundamental.

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Barrie G. Britton, K0WWG
    Loma Linda University Medical Center
    Radiation Research Lab--Proton Accelerator Group

Snail Mail: 5023 Rockledge Drive
              Riverside, California 92506

E-Mail      : britton@proton.llumc.edu

What one fool can do, another can.--Sylvanus P. Thompson

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Date: Thu, 18 Mar 1993 22:15:20 GMT  
From: newsflash.concordia.ca!nstn.ns.ca!news.ucs.mun.ca!morgan!  
dlawlor@uunet.uu.net  
Subject: Good amateur radio log  
To: info-hams@ucsd.edu

Does anyone know where I can find a good amateur radio computerized log? I want one which is easy to use, not too expensive, and works on an IBM PC compatible. This should be a log for daily use.. Not something for contesting. Any help on this would be greatful.  
Doug

--  
Doug Lawlor, vo1cm  
Internet: dlawlor@morgan.ucs.mun.ca or dlawlor@kean.ucs.mun.ca

Date: 18 Mar 93 20:15:46 GMT  
From: ogicse!uwm.edu!cs.utexas.edu!zaphod.mps.ohio-state.edu!rpi!  
rs6313.ecs.rpi.edu!maessm@network.UCSD.EDU  
Subject: Help 2meter j antenna  
To: info-hams@ucsd.edu

In article <732437050.AA02606@tdkt.kksys.com>,

Claton.Cadmus@f100.n282.z1.tdkt.kksys.com (Claton Cadmus) writes:

|> I building a 2 meter J antenna and have a question. What type of  
|> connector should I use at the antenna? BNC, S0-239, etc. What would  
|> you use and why?

Use whatever connector is more convenient for you. If you already have a piece of coax with a PL-259 on it, use an S0-239. Sure, you will get more loss in an S0-239, but IMHO, it doesn't make that much of a difference on strong signals on 2-meter FM. Now moonbounce, that's another story...

--

Mat Maessen N2NJZ | maessm@rpi.edu

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The opinions expressed in this message definitely do NOT reflect the views of RPI, Roland Schmitt, or BAPP  
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Date: 18 Mar 93 12:31:55 CST

From: timbuk.cray.com!hemlock.cray.com!cherry10!dadams@uunet.uu.net

Subject: help: exam prep

To: info-hams@ucsd.edu

I'm getting ready to go take my first Ham exam this Saturday. I haven't purchased any study guides, partly because at \$20 each, this can be quite a bit when I am trying to pass off more than one licence level. (I am quite confident that I can pass off novice--I am trying to bone up on the next few levels. I am in field goal range of 13 wpm CW.)

I have been studying the question pools. I would use a copy of one of the study guides if I had one. (I would prefer that.)

I wonder if any of you could help with the following questions:

Can anyone give a list of which exam elements are required for which license levels?

Is there a file anywhere listing the frequency spectrum allotted to the different license levels? How do the rest of you go about memorizing all this data for the exam? (This feels like a history exam where you have to memorize lots of dates & etc. --- only here it is alot of numbers for frequency allocations.)

Can you offer any other tips on getting ready to take the exam?

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--David C. Adams Statistician Cray Research Inc. dadams@cray.com

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Old Sourdoughs never die. They just ferment away.

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Date: 18 Mar 93 20:16:58 GMT  
From: topaz.bds.com!topaz.bds.com!ron@uunet.uu.net  
Subject: help: exam prep  
To: info-hams@ucsd.edu

> Can anyone give a list of which exam elements are required for which  
> license levels?

Novice: 1A, 2  
Technician: 2, 3A  
General: 1B, 2, 3A, 3B  
Advanced: 1B, 2, 3A, 3B, 4A  
Amateur Extra: 1C, 2, 3A, 3B, 4A, 4B

2-4B are written tests. 1A, 1B, and 1C are the 5, 13, and 20 WPM code tests.

You might try your local library for the materials. The ARRL has a special library deal and many ham clubs purchase sets for their local library branches. I've done this in other clubs, and I was going to do it for our local library except the Fairfax County Library System is too screwed up to accept such a donation.

> Is there a file anywhere listing the frequency spectrum allotted to  
> the different license levels?

I'd expect so, someone must have typed it in, but I stopped worrying about it when I got my Extra :-). Actually what I use in my shack is a piece of ICOM sales literature that shows it all graphically. Also I believe that it's published each year in the January QST (again check the library, at least our library isn't too screwed up to subscribe to QST). Yes, it's a silly arbitrary thing to have to memorize.

-Ron

-Ron  
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Date: Thu, 18 Mar 1993 21:55:47 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!  
newsserver.jvnc.net!darwin.sura.net!sgiblab!sgigate!odin!chuck.dallas.sgi.com!  
adams@network.UCSD.EDU  
Subject: MFJ & Oak Hills QRP gear  
To: info-hams@ucsd.edu

In article <C41yKH.H6E@world.std.com>, mulvey@world.std.com (Richard K Mulvey)  
writes:

|> Hello!  
|> I've been looking around for QRP equipment, and have pretty much  
|> narrowed the search to the MFJ CW transceiver and the Oak Hills  
|> "Spirit" kit. Has anyone used either of them? How about your  
|> opinion regarding their on-the-air performance? And in regards to the  
|> Oak Hill kit, what did you think of the assembly in terms of  
|> ease/time to build?  
|>  
|> Thanks for your help!  
|> - Rich  
|>  
|> --  
|> Rich Mulvey mulvey@world.std.com "A thing of beauty is a joy forever:  
|> {&&, ||} 73476.1142@compuserve.com its loveliness increases; it will  
|> Katy Mulvey ( The new Mrs Mulvey! :-) pass into nothingness..."

Rich,

go for the OHR Spirit. i've had the 40 meter version running for several  
months now and have 40 states and 8 countries wid 80 mtr long wire.  
this at the two watt level. the  
qsk is very very nice. i don't think the mfj has qsk. from cold start it (OHR)  
has no drift. the quality of the kit and the parts is outstanding.

it is not for the absolute beginner. if you've put together a heath or  
similar kit, you should have not problem. the instructions are not  
step by step. if you have any more questions, email to me.

73 es gl de k5fo chuck dit dit

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Date: 18 Mar 93 15:49:56 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Mobile in a Lumina  
To: info-hams@ucsd.edu

Haver any of you had any experience operating your mobile gear in a Chev  
Lumina? My next Co. car is going to be a Lumina and I have heard the body

panels are mostly plastic. This concerns me. I have a 2M/70cm mobile and an HTX-100 10M mobile. I currently use a trunk-lip mount antenna. Since the Lumina is mostly plastic that kinda puts a crimp into using that antenna. I have had bad experiences using mag-mounts on Chev paint jobs and want to avoid going through that again. Are the trunk lids in fact plastic and will I have to go to an antenna that does not require a groundplane? Is the Lumina more susceptible to RF messing up its microprocessors? I want to put the 10M rig in the car to work some 10M this summer and need to start figuring something out. So, if any of you currently drive Luminas and work mobile let me know your experiences.

Thanks & 73  
de N5PWP  
\_\_mike  
MBeez.HoustonCSSC@Xerox.COM

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Date: 18 Mar 1993 22:52:11 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!usc!sdd.hp.com!think.com!Think.COM!bruce@network.UCSD.EDU  
Subject: NEC-2 Ground parameters  
To: info-hams@ucsd.edu

I have been playing with NEC-2 to do some antenna simulations, but I'm not sure of realistic figures to use for ground parameters. Obviously, they vary quite a bit with local conditions, but if you have a table of a few data points you wouldn't mind sending me, I would appreciate it (e.g., midwest prairie soil, New England rocky clay, marsh, desert).

--  
--Bruce Walker  
Thinking Machines Corporation, Cambridge, MA  
bruce@think.com; +1 617 234 4810; WT1M

-----  
Date: 18 Mar 93 19:01:20 GMT  
From: ogicse!uwm.edu!linac!att!cbnews!wx4d@network.UCSD.EDU  
Subject: new bug user  
To: info-hams@ucsd.edu

In article <rrgd50-150393103158@222.5.80.3> rrgd50@email.sps.mot.com (Chris Terwilliger) writes:

>Well, I always wanted to try a bug, so I bought a used Vibroplex  
>(standard model) at a hamfest this weekend. It seems to work OK after  
>I spent about an hour playing with the adjustments. Is there a best  
>way (or better way) to adjust a Vibroplex? Does Vibroplex carry



>replacement parts, etc? I noticed that after listening to the rhythm  
>of the bug for awhile, I can easily pick out other bug users on the  
>air...

>

>

>\* Chris Terwilliger, KI7LD rrgd50@email.sps.mot.com \*  
>\* Motorola "And now, the sequence of events, \*  
>\* 2100 E. Elliot Rd. EL374 in no particular order." \*  
>\* Tempe, AZ 85284 - Dan Rather \*

Aah, you've hit upon a subject close to my heart! I can't explain why, but I really like using a bug. I know the keyers send great code, but (IMHO) they do too much for you.

If you practice, you will be able to send very good code with the bug. The main challenge is to get the "dahs" timed correctly relative to the "dits." My tendency, if I'm not careful, is to stretch the dahs out too long.

Yes, Vibroplex is alive and well and still making bugs, although they have gotten so expensive that I can't imagine they sell very many new. They are in Portland, Maine, and have an 800 number (I think it's 800-vibroplex, but you can be sure via 800-directory assistance, 800-555-1212). They still have spare parts for most things. They also have contact burnishing tools, carrying cases, covers, etc. There is a little pamphlet they will send you if you call or write. If someone else doesn't post it in a few days, I'll find my copy of it and post the full address and phone number.

When I inquired a few years ago, they sent me a photocopy of an old CQ article, where the adjustment procedure is described. I'll look for it.

One other very useful thing: Vibroplex sells extra weights. They come in two or three sizes. If you are like me, you bought the bug before your code speed was up to the minimum setting on the bug !! (Hi hi). An old-timer gave me the greatest hint: put a clothes pin on the weight to slow it down to the speed you are comfortable with. I used mine that way for years!

Good luck, have fun, & 73!

Jim Morgan, WX4D  
jvm@aluxpo.att.com

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Date: Thu, 18 Mar 1993 18:06:03 GMT  
From: usc!howland.reston.ans.net!zaphod.mps.ohio-state.edu!uwm.edu!linac!att!  
cbnewsm!wx4d@network.UCSD.EDU  
Subject: TS-820 vs. TS-820S: Differences ?  
To: info-hams@ucsd.edu

Can anyone summarize the differences between the Kenwood TS-820 and TS-820S ? I have heard that the '820 had no digital frequency display, but that they were otherwise the same. Is this correct? (I know that there was an optional kit to add the digital display). If not, what other differences were there ?

My rig has "TS-820" on the front panel and rear nameplate, but it does include a digital frequency display. Is it really a TS-820, or an early TS-820S ?

Thanks & 73,

Jim Morgan WX4D/3  
AT&T - Allentown, PA  
jvm@aluxpo.att.com

(215)770-2663

-----  
Date: 18 Mar 93 20:01:04 GMT  
From: topaz.bds.com!topaz.bds.com!ron@uunet.uu.net  
Subject: White House To Auction Airwaves  
To: info-hams@ucsd.edu

>The New York Times page C1 reported today, 3/18/93, that the White House wants  
>to auction the nations airwaves to reduce the budget.

I don't know about auction, but charging some of the more lucrative services wouldn't be a bad idea. A cellular franchise is like a license to print money, as are many of the broadcast outlets. There is essentially zip paid by the licensees for the privelege.

I don't think that the highest bidder is an optimal way to do spectrum assignment. But perhaps an auction as opposed to the current lotteries to assign cellular and direct broadcast satellite would be a good idea.

-Ron

-----  
Date: Thu, 18 Mar 1993 21:46:14 GMT

From: sgi!odin!chuck.dallas.sgi.com!adams@ames.arpa  
Subject: Wrinkle Paint  
To: info-hams@ucsd.edu

In article <1993Mar17.184150.15896@sunova.ssc.gov>, chuck\_adams@qmail.ssc.gov  
(Chuck Adams) writes:

```
|> In article <1993Mar17.135255.23820@odin.corp.sgi.com>
|> adams@chuck.dallas.sgi.com (Charles Adams) writes:
|>
|> story about finding and using wrinkle painted deleted.....
|>
|> >The Adams DFW rule applies here.  the DFW rule is:  don't fool with it!!  or
|> >any other four letter word you wanna use.  ;-)
|>
|> >73 de k5fo chuck      dit      dit
|>
|> How odd.....I have the same Adams DFW rule  :)
|>
|>                Chuck Adams,  WB5WRR  (The Chuckster)
|>                Not an official document of DOE, SSCL, URA or EG&G
|>                "I cut you three ways, man:  quick, deep and frequently"
|>                Internet:  chuck_adams@qmail.ssc.gov
```

NOT!! i know you don't have the same rule, cause you violated it in a big  
way!!!!

and i mean BIG way. let me refresh everybody's memory. seems like somebody  
else named Chuck was in DFW (Dallas-Ft Worth area) making kung fu movie.  
Norris, i think. seems they rented 400Mhz walkie talkies and were using  
them big time in the ham bands. seems like another Chuck, WB5WRR, turned  
'em in to the feds. (you weren't in Waco by any chance?).

Chuck Adams -1 Chuck Norris - 0 (that's WB5WRR ;- )

congratulations Chuck A. seems like in the March QST, and i don't have  
the exact page number, there was a short writeup on increased fines being  
passed out by the FCC to hams operating in violation of rules es regs.  
there was a mention of the film crew and that i think there are fines  
involved and the business that rented them equipment is in deep deep yogurt.

looks like being a member of the ABBA doesn't help in all fights, does it?  
ABBA - American Black Belt Association

what you gonna do for an encore? :-)

73 de k5fo "the other" Chuck

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V-tac Series All solid state, never really sold much, as RCA was getting out of the business.

>I went from Prog Lines to Micors.

I still have some prog lines. That was my first 2m radio, and I went from vibrators to a x-stister chopper PS, and thought I had it made!

Something nice about a radio that could be tuned up using a volt meter.

Hate to sound like an OF, but for their day Prog lines were good radios. Much better than the Moto T power equivalent.

RCA Carphones (ancient) had Buck Rogers mikes that are pretty cool for the "Retro" look. :-) I have one I might put a new element in and use on my TS-440 just for grins.

I also have a "Voice Commander" GE portable. Supposedly the first portable commercial FM rig. (Predates the GE and Moto portables, as well as Moto "Bricks". HT-50???)

73,

Alan Barrow	km4ba		I've seen things you people wouldn't believe. Attack
jab@atl.hp.com			ships on fire off the shoulder of Orion. I watched
			C-beams glitter in the dark near the Tannhauser gate.
..!gatech!	kd4nc!		All those moments will be lost in time -
km4ba!	alan		like tears in rain. Time to die.
			Roy Batty

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End of Info-Hams Digest V93 #342

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